

2007 Prequalification Category Descriptions and Requirements

Note: All categories that require individual Professional Engineer or Architect Licenses require at least one of the Licensed Engineers or Architects to be registered in the State of Connecticut as well as the firm to hold the appropriate Connecticut Corporate Engineering or Architecture License if applicable. Copies of these licenses and required certifications and registrations that indicate they are in current standing must be included in your submittal in order to be prequalified in these categories – no exceptions. Please attach all required licenses, registrations and certifications in a separate section of your prequalification submittal.

1. Airport Planning and Studies
Preparation of system plans, master plans, layout plans or other types of studies including demand analysis, facility needs and feasibility, financial assessment, lease analysis, environmental analysis, and noise impact and abatement analysis
2. Airport Design
Design of runways, taxiways, aprons, and electrical systems
License Requirement: Professional Engineers
3. Bridge and Structure Inspection
Biennial structural inspection and rating of highway and railroad bridges, structural inspection of signal and sign supports, towers, piers, wharves, buildings and special structures
License Requirement: Professional Engineers
4. Bridge and Structure Inspection (Underwater)
Inspection of the underwater components of any bridge or structure including inspection of above water components, and construction activities
License Requirement: Professional Engineers
5. Bridge and Structure Design
Design of highway and railroad bridges, culverts, sign and signalization supports, towers, structural repairs, and special structures
License Requirement: Professional Engineers
6. Coatings Inspection
Inspection of painting/coating of bridges, coating failure analysis, specification preparation and review, coating system review and recommendations, laboratory analysis, containment analysis for worker protection in hazardous paint removal environments, training in coatings inspection and other related services and expert witness testimony
License Requirement: Professional Engineers
Certification Requirement: NACE Coatings Inspectors
7. Construction Engineering and Inspection (Road, Bridge, and Aviation)
Resident inspection, constructability reviews, cost estimating, quality assurance reviews, construction survey and office engineering for road, bridge, traffic, illumination or lighting, and aviation construction projects
License Requirement: Professional Engineers
Requirements for Inspection staff: NICET certification at Level II or above, or a Professional EIT License
8. Construction Engineering and Inspection (Facilities)
Resident inspection, constructability reviews, cost estimating, quality assurance reviews, construction survey and office engineering for all types of facilities, including railroad stations, buildings, bus maintenance and storage facilities, parking structures, warehouses, and terminals, piers, wharves, and ferry facilities
License Requirement: Professional Engineers
Requirements for Inspection staff: NICET certification at Level II or above, or a Professional EIT License

9. Construction Engineering and Inspection (Rail)
Resident inspection, constructability reviews, cost estimating, quality assurance reviews, construction survey and office engineering for track, power, catenary, communications and signals
License Requirement: Professional Engineers
Requirements for Inspection staff: NICET certification at Level II or above, or a Professional EIT License
10. Environmental Compliance (Asbestos, Paint)
Conduct asbestos, lead and household hazardous waste investigations, preparation of design plans for abatement, waste removal and structure demolition, inspection and compliance services during abatement and demolition, and air quality compliance
License Requirements: Professional Engineers, and CT Asbestos Consultant-Inspector/Management Planner, and CT Asbestos Consultant-Project Designer, and CT Asbestos Consultant-Project Monitor
Certification Requirements: CT Lead Planner-Project Designer, and CT Lead Inspector, and CT Lead Inspector Risk Assessor, and Industrial Hygienist
Registration Requirement: Asbestos Analyst
NOTE: one person can hold all of the requirements for this category
11. Environmental Compliance (Soil, Groundwater)
Provide regulatory compliance services, environmental site evaluations, subsurface site investigations, water quality monitoring, soil and groundwater remediation designs, inspection and environmental compliance oversight during construction and remediation
License Requirements: Professional Engineers, and CT Environmental Professionals
Certification Requirements: Industrial Hygienist or Hazardous Materials Manager
NOTE: one person can hold all of the requirements for this category
12. Environmental Planning and Studies
State and Federal environmental impact statements and assessments for all modes of transportation including passenger and freight, wetland delineation and studies, stormwater management, water resources, land use, ecological, noise, air quality and historic/archaeological studies
13. Facility Design (Aviation)
Terminals, maintenance facilities, taxiways, runways, renovations, and ADA compliance
License Requirement: Professional Engineers and/or Architects
14. Facility Design (Highway)
Maintenance facilities, salt storage facilities, parking structures, ADA compliance
License Requirement: Professional Engineers and/or Architects
15. Facility Design (Ports)
Piers, wharves, docks, warehousing, ferry facilities, renovations, ADA compliance
License Requirement: Professional Engineers and/or Architects
16. Facility Design (Transit)
Bus maintenance / storage facilities, stations, terminals, renovations, ADA compliance, park & ride lots
License Requirement: Professional Engineers and/or Architects
17. Facility Design (Rail)
Stations, maintenance facilities, pedestrian bridges and tunnels, renovations, ADA compliance and parking lots/structures
License Requirement: Professional Engineers and/or Architects
18. Freight/Goods Movement Intermodal Planning Studies
Data collection, demand analysis, alternatives analysis, needs and deficiencies analysis and reports, intermodal connectivity evaluation, including roadway, water, railroad, air transport and economic effect

19. Highway Design
Roads, drainage, hydraulics, geotechnical and subsurface investigations, landscape architecture, illumination, incidental structures, property mapping, title searching, environmental permitting and stormwater certification, contract development, and cost estimating
License Requirement: Professional Engineers
20. Intelligent Transportation Systems (ITS)
Preparation and design of ITS including automatic vehicle location systems, radio systems, fare collection systems, information systems, traffic management systems, operations center modifications, incident management systems, diversion routes, operational systems development including system integration, and maintenance and repair specifications
License Requirement: Professional Engineers
21. Port Planning and Studies
Port planning, operational analysis, financial assessment, land use and development studies, and lease analysis
22. Rail Design
Track, power, catenary, rolling stock specification development and inspection, communications and signals
License Requirement: Professional Engineers
23. Traffic Engineering
Operational analysis, traffic signals and signal systems, signing, pavement markings, traffic data collection, accident analysis, traffic studies, railroad-highway grade crossings, safety improvements, and maintenance and protection of traffic
License Requirement: Professional Engineers
24. Transit Planning and Studies (Rail & Bus)
Demand analysis, alternatives analysis, system needs and feasibility studies and plans, service design and management studies, marketing/maintenance studies and plans, financing needs and options, operational analysis, and implementation plans
25. Transportation Planning Studies (Rail, Bus, Road, Aviation, Bicycle/Pedestrian, Rideshare, Ports/Waterway, and Freight)
Transportation forecasting and modeling, alternatives analysis, demand analysis, reports and studies, intermodal planning and studies, needs and feasibility studies, transportation and land use studies, financing needs and options, implementation plans, and public involvement/public acceptability related studies and reports
26. Waste Treatment Design
Water pollution control facilities, sewer evaluation and design, and septic system design
License Requirement: Professional Engineers